

Features

- General rectification
- Low V_F ; Low I_R
- High reliability

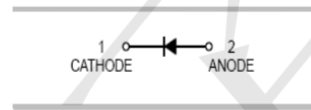
Applications

- surface mount schottky barrier rectifier

Ordering Information

- Shipping Qty:3000/7inch Tape& Reel

SOD323



Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
DC Reverse Voltage	V_{RRM}	40	V
Mean Rectifying Current	I_O	200	mA
Peak Forward Surge Current, 8.3ms Single Half-sine-wave	I_{FSM}	1	A

Thermal Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Units
Power Dissipation	P_D	150	mW
Typical Thermal Resistance per leg	$R_{\theta JA}^*$	667	$^\circ\text{C/W}$
Thermal resistance junction to Lead	$R_{\theta JL}^*$	658	$^\circ\text{C/W}$
Thermal resistance junction to case	$R_{\theta JC}^*$	421	$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	40 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	40 to +150	$^\circ\text{C}$

* Part mounted on FR-4 board with recommended pad layout

Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Forward Voltage	V_F^*	$I_F=10\text{mA}$	-	-	0.39	V
		$I_F=200\text{mA}$	-	-	0.55	V
Reverse Current	I_R^{**}	$V_R=10\text{V}$	-	-	1	μA
		$V_R=40\text{V}$	-	-	10	μA
Capacitance between terminals	C_T	$V_R=0\text{V}, f=1\text{MHz}$	-	22	50	pF

*Pulse width $\leq 380\text{ }\mu\text{s}$, Duty cycle $< 2\%$

**pulse test , $t_p \leq 5\text{ms}$

Typical Electrical Characteristic Curves

FIG 1. TYPICAL REVERSE CHARACTERISTIC

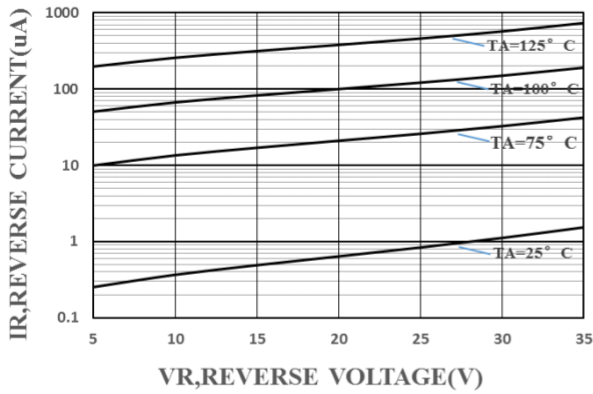


FIG 2. TYPICAL FORWARD CHARACTERISTIC

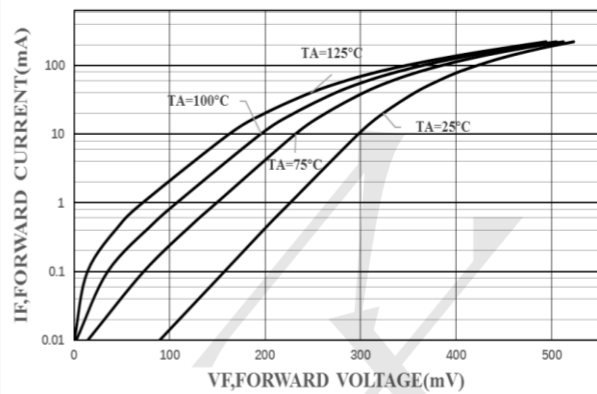


FIG 3. CAPACITANCE VS REVERSE VOLTAGE

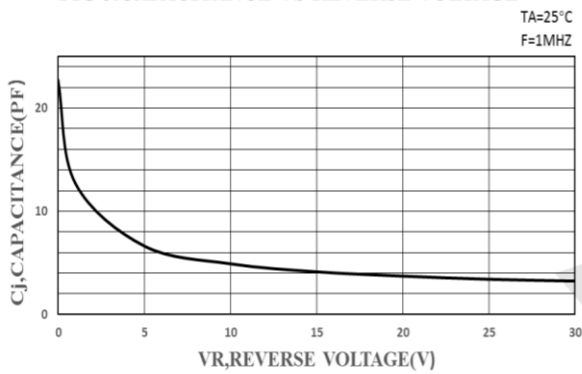
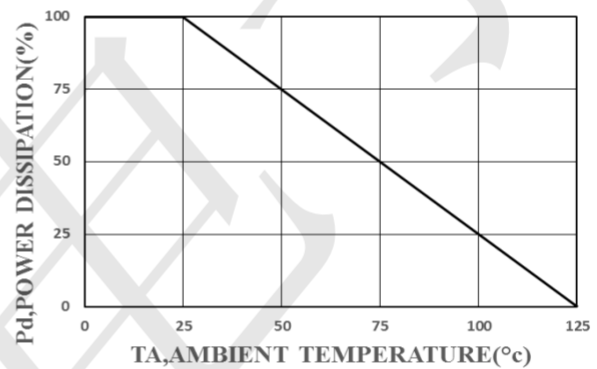
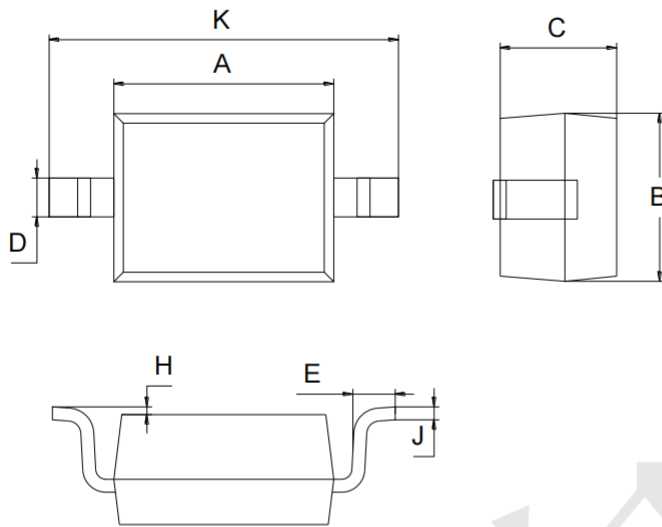


FIG 4. DERATING CURVE (P_d - T_A)



Outline Drawing - SOD323



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75